

WHAT IS CLAIMED IS:

1. A control method for a data communication apparatus capable of receiving binary image data having a first resolution and a second resolution lower than
5 the first resolution, and color image data having the second resolution, comprising:

the first notification step of notifying a partner apparatus of an image data reception function having the first resolution and a color image data
10 reception function as maximum receiving capacity;

the determination step of determining whether the partner apparatus instructs transmission of color image data at the first resolution on the basis of the notification in the first notification step; and

15 the second notification step of notifying the partner apparatus of an image data reception function having the second resolution and the color image data reception function as receiving capacity when transmission of color image data at the first
20 resolution is determined in the determination step to be instructed.

2. The method according to claim 1, further comprising:

the history holding step of holding an execution
25 history of the second notification step for each of a plurality of communication partners including the

partner apparatus; and

the control step of controlling which of the first and second notification steps is executed on the basis of the execution history at start of
5 communication with the partner apparatus.

3. The method according to claim 2, wherein the control step comprises executing the second notification step at start of communication with the partner apparatus when the second notification step has
10 been executed for the partner apparatus successively a plurality of number of times.

4. A data communication apparatus capable of receiving binary image data having a first resolution and a second resolution lower than the first resolution,
15 and color image data having the second resolution, comprising:

notification means for notifying a partner apparatus of receiving capacity of said apparatus; and
reception means for receiving data transmitted
20 from the partner apparatus,

wherein said notification means notifies the partner apparatus of an image data reception function having the first resolution and a color image data reception function as maximum receiving capacity at
25 start of communication with the partner apparatus, and when the partner apparatus instructs transmission of

color image data at the first resolution, notifies the partner apparatus of an image data reception function having the second resolution and the color image data reception function as receiving capacity.

5 5. The apparatus according to claim 4, wherein
 said apparatus further comprises history holding
 means for holding a history of sending a second
 condition by said notifying means for each of a
 plurality of communication partners including the
10 partner apparatus, and

 said notification means determines which of first
 and second receiving capacities the partner apparatus
 is to be notified of, on the basis of the execution
 history at start of communication with the partner
15 apparatus.

6 6. The apparatus according to claim 5, wherein said
 notification means sends the second condition at start
 of communication with the partner apparatus when the
 partner apparatus has been notified of the second
20 condition successively a plurality of number of times.

7 7. A control method for a data communication
 apparatus capable of receiving binary image data which
 satisfies a first condition, and multilevel image data
 which satisfies a second condition different from the
25 first condition, comprising:

 the notification step of notifying a partner

apparatus of the first and/or second condition as receivable data information; and

the reception step of receiving image data transmitted from the partner apparatus on the basis of
5 the notification in the notification step.

8. The method according to claim 7, wherein
the multilevel image data includes color image data, and

the notification step further comprises notifying
10 the partner apparatus that color image data can be received.

9. The method according to claim 7, wherein the notification step comprises:

the first notification step of notifying the
15 partner apparatus of the first condition as receivable data information;

the determination step of determining whether the multilevel image data satisfies the second condition when the partner apparatus instructs transmission of
20 multilevel image data on the basis of the notification in the first notification step; and

the second notification step of notifying the partner apparatus of the second condition as receivable data information when the multilevel image data is
25 determined in the determination step not to satisfy the second condition.

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10. The method according to claim 9, wherein the determination step comprises determining whether the multilevel image data satisfies the second condition when the multilevel image data is data based on the
5 first condition.
11. The method according to claim 7, wherein the first condition sets a maximum resolution of the binary image data as a first resolution, and the second condition sets a maximum resolution of
10 the multilevel image data as a second resolution lower than the first resolution.
12. The method according to claim 7, wherein the first condition sets a resolution of the binary image data as either of first and second
15 resolutions, and the second condition sets a resolution of the multilevel image data as the second resolution.
13. The method according to claim 7, wherein the first condition sets a maximum size of the
20 binary image data as a first size, and the second condition sets a maximum size of the multilevel image data as a second size smaller than the first size.
14. The method according to claim 9, wherein the
25 first notification step is executed at start of communication with the partner apparatus.

15. The method according to claim 9, wherein the determination step comprises determining whether the multilevel image data satisfies the second condition even when the partner apparatus instructs transmission
5 of multilevel image data on the basis of the notification in the second notification step.

16. The method according to claim 15, further comprising:

the history holding step of holding an execution history of the second notification step for each of a plurality of communication partners including the partner apparatus; and

the control step of controlling which of the first and second notification steps is executed on the basis of the execution history at start of communication with the partner apparatus.

17. The method according to claim 16, wherein the
control step comprises executing the second
notification step at start of communication with the
partner apparatus when the second notification step has
been executed for the partner apparatus successively a
plurality of number of times.

18. The method according to claim 7, wherein the notification step comprises notifying the partner

12. The author would like to thank Mr. J. A. M. van der

notification step comprises sending the first and second conditions by an initial identification signal.

20. A data communication apparatus capable of receiving binary image data which satisfies a first condition, and multilevel image data which satisfies a second condition different from the first condition, comprising:

notification means for notifying a partner apparatus of the first and/or second condition as receivable data information; and

reception means for receiving image data transmitted from the partner apparatus on the basis of the notification by said notification means.

21. The apparatus according to claim 20, wherein the multilevel image data includes color image data, and

said notification means further notifies the partner apparatus that color image data can be received.

22. The apparatus according to claim 20, wherein said notification means notifies the partner apparatus of the first condition at start of communication with the partner apparatus, and when the partner apparatus instructs transmission of multilevel image data, and the multilevel image data does not satisfy the second condition, notifies the partner apparatus of the second condition.

23. The apparatus according to claim 22, wherein said notification means determines whether the multilevel image data satisfies the second condition when the multilevel image data is data based on the first condition.

24. The apparatus according to claim 20, wherein
the first condition sets a maximum resolution of
the binary image data as a first resolution, and
the second condition sets a maximum resolution of
10 the multilevel image data as a second resolution lower
than the first resolution.

25. The apparatus according to claim 20, wherein
the first condition sets a resolution of the
binary image data as either of first and second
15 resolutions, and

the second condition sets a resolution of the multilevel image data as the second resolution.

26. The apparatus according to claim 20, wherein
the first condition sets a maximum size of the
20 binary image data as a first size, and
the second condition sets a maximum size of the
multilevel image data as a second size smaller than the
first size.

27. The apparatus according to claim 22, wherein
25 said apparatus further comprises history holding
means for holding a history of sending the second

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condition by said notifying means for each of a plurality of communication partners including the partner apparatus, and

 said notification means determines which of first
5 and second receiving capacities the partner apparatus
is to be notified of, on the basis of the execution
history at start of communication with the partner
apparatus.

28. The apparatus according to claim 27, wherein said
10 notification means sends the second condition at start
of communication with the partner apparatus when the
partner apparatus has been notified of the second
condition successively a plurality of number of times.

29. The apparatus according to claim 20, wherein said
15 notification means notifies the partner apparatus of
the first and second conditions at once.

30. The apparatus according to claim 29, wherein said
notification means sends the first and second
conditions by an initial identification signal.

20 31. A control program for a data communication
apparatus capable of receiving binary image data having
a first resolution and a second resolution lower than
the first resolution, and color image data having the
second resolution, comprising:

25 a code of the first notification step of
notifying a partner apparatus of an image data

reception function having the first resolution and a color image data reception function as maximum receiving capacity;

a code of the determination step of determining

- 5 whether the partner apparatus instructs transmission of color image data at the first resolution on the basis of the notification in the first notification step; and

10 a code of the second notification step of notifying the partner apparatus of an image data reception function having the second resolution and the color image data reception function as receiving capacity when transmission of color image data at the first resolution is determined in the determination step to be instructed.

15 32. A control program for a data communication apparatus capable of receiving binary image data which satisfies a first condition, and multilevel image data which satisfies a second condition different from the first condition, comprising:

20 a code of the notification step of notifying a partner apparatus of the first and/or second condition as receivable data information; and

25 a code of the reception step of receiving image data transmitted from the partner apparatus on the basis of the notification in the notification step.

33. A recording medium which records a control

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program for a data communication apparatus capable of receiving binary image data having a first resolution and a second resolution lower than the first resolution, and color image data having the second resolution, the

5 control program comprising:

a code of the first notification step of notifying a partner apparatus of an image data reception function having the first resolution and a color image data reception function as maximum

10 receiving capacity;

a code of the determination step of determining whether the partner apparatus instructs transmission of color image data at the first resolution on the basis of the notification in the first notification step; and

15 a code of the second notification step of

notifying the partner apparatus of an image data reception function having the second resolution and the color image data reception function as receiving capacity when transmission of color image data at the

20 first resolution is determined in the determination step to be instructed.

34. A recording medium which records a control program for a data communication apparatus capable of receiving binary image data which satisfies a first condition, and multilevel image data which satisfies a second condition different from the first condition,

the control program comprising:

a code of the notification step of notifying a partner apparatus of the first and/or second condition as receivable data information; and

5 a code of the reception step of receiving image data transmitted from the partner apparatus on the basis of the notification in the notification step.